



Patent  
45389.00008.CIP1

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

**In re the Application of:**

Ismail Lakkis

**Serial No.:** 10/811,223

**Filed:** March 26, 2004

**For: SYSTEMS AND METHODS FOR  
TRANSMITTING DATA IN A  
WIRELESS COMMUNICATION  
NETWORK**

**Group Art Unit: 2681**

**Examiner:** To Be Assigned

**Customer No.: 36183**

## TRANSMITTAL LETTER

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Enclosed are the following documents:

- Supplemental Information Disclosure Statement;
- Form PTO/SB/08A with copies of 12 cited References; and
- Return Postcard;

No fee is believed due with this submission; however, the Commissioner is authorized to charge any fee required to our Deposit Account No. **50-2613**.

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**(37 C.F.R. §1.8a)**

I hereby certify that this paper (along with anything referred to as being attached or enclosed) is being deposited with the United States Postal Service on the date shown below with sufficient postage as First Class Mail in an envelope addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

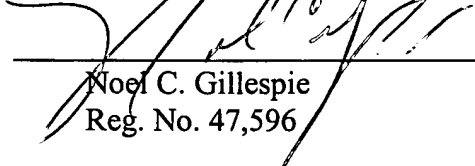
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Respectfully submitted,

PAUL, HASTINGS, JANOFSKY & WALKER LLP

Dated: 20-OCT-2A By:   
Noel C. Gillespie  
Reg. No. 47,596

**PAUL, HASTINGS, JANOFSKY & WALKER LLP**  
P.O. Box 919092  
San Diego, CA 92191-9092  
Phone: (858) 720-2500  
Fax: (858) 720-2555



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SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

In compliance with the Applicant's duty under 37 CFR § 1.56, the following information is brought to the attention of the Examiner.

CERTIFICATE OF MAILING  
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I hereby certify that this paper (along with any referred to as being attached or enclosed) is being deposited with the United States Postal Service on the date shown below with sufficient postage as First Class Mail in an envelope addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

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Date of Delivery

Timothy Lusher  
Name of Person Delivering Paper  
Timothy Lusher  
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**REFERENCES**



The references are listed on the attached Form PTO/SB/08a and copies are enclosed for the convenience of the Examiner.



Copies of the references listed on the attached Form PTO/SB/08a have already been submitted in corresponding Patent Application No. \_\_\_\_\_ and therefore, copies of the same are not enclosed.



Copies of U.S. Patent documents are not enclosed herewith.

The items identified in this Supplemental Information Disclosure Statement may or may not be “material” pursuant to 37 CFR § 1.56 and the submission thereof by Applicant shall not be construed as an admission that any such patent, publication or other information referred to therein is material or considered to be material (37 CFR § 1.97(h)), or even qualifies as “prior art” 35 USC § 102 with respect to this invention unless specifically designated by Applicant as such.

The filing of this Supplemental Information Disclosure Statement shall not be construed to mean that a search has been made or that no other material information, as defined in 37 CFR § 1.56, exists.

**DISCLOSURE**



The attached Supplemental IDS is being filed in accordance with 37 CFR §§ 1.97 and 1.98. This IDS is believed to be timely in that it is being submitted under 37 CFR § 1.97(b)(3), that is before the mailing of a first Office Action on the merits. Thus, no petition or fee is required. However, if the undersigned representative of Applicant is in error in this regard, then the Examiner is requested to consider this IDS as filed under § 1.97(c)



The attached Supplemental Information Disclosure Statement is being filed in accordance with 37 CFR §§ 1.97(c) and 1.98. This IDS is being filed after an action on the merits but before a Final Action under § 1.113 or a Notice of Allowance under § 1.311. In the event that this IDS is not received before a Final Action under § 1.113 or a Notice of Allowance under § 1.311, the Applicant respectfully requests the filing of these papers to be considered a petition requesting consideration of this IDS pursuant to 37 CFR § 1.97(d).



The attached Supplemental Information Disclosure Statement is being filed in accordance with 37 CFR §§ 1.97(d) and 1.98. This IDS is being filed after receipt of a final action but before receipt of a Notice of Allowance Under § 1.311.

**Statement Under 37 C.F.R. 1.97(e)(1) and 1.97(e)(2)**

☐ I certify that pursuant to 37 CFR 1.97(e)(1), each item of information contained in this Supplemental Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the Information Disclosure Statement.

☐ I certify that pursuant to 37 CFR 1.97(e)(2), no item of information contained in this Supplemental Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the best of my knowledge, no item of information contained in this Information Disclosure Statement was known to any individual more than three months prior to the filing of this Information Disclosure Statement.

**PAYMENT METHOD**

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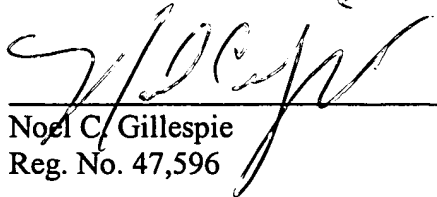
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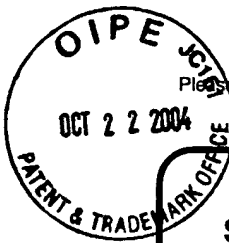
Respectfully submitted,

PAUL, HASTINGS, JANOFSKY & WALKER

Dated: 28-SEP-89

By:   
Noel C. Gillespie  
Reg. No. 47,596

P.O. Box 919092  
San Diego, California 92191-9092  
Telephone: (858) 720-2500  
Facsimile: (858) 720-2555



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Substitute for form 1449A/PTO		<b>Complete if Known</b>			
<b>SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)		Application Number	10/811,223		
		Filing Date	March 26, 2004		
		First Named Inventor	Lakkis, Ismail		
		Group Art Unit	2681		
		Examiner Name	To Be Assigned		
Sheet	1	of	2	Attorney Docket Number	45389.00008.CIP1

U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code <sup>2</sup> (if known)			
	AD	4,039,972		Scholten et al.	08-02-1997	
	AE	5,087,835		Hattangadi	02-11-1992	
	AF	5,396,110		Houston	03-07-1995	
	AG	5,563,909		Nakazawa	10-08-1996	
	AH	5,675,572		Hidejima et al.	10-07-1997	
	AI	5,949,813		Hunsinger et al.	10-07-1999	
	AJ	6,049,707		Buer et al.	04-11-2000	
	AK	6,192,068 B1		Fattouche et al.	02-20-2001	
	AL	6,198,327 B1		Takashi	03-06-2001	
	AM	6,320,897 B1		Fattouche et al.	11-20-2001	
	AN	2001/0017563		Kim	08-30-2001	
	AO	2001/0019282 A1		Kuhne	09-06-2001	
	AP	RE37,802 E		Fattouche et al.	07-23-2002	

FOREIGN PATENT DOCUMENTS							
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Office <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)			

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	AQ	BINGHAM, JOHN A.C. "Multicarrier Modulation for Data Transmission: An Idea Whose Time Has Come" IEEE Communications Magazine, May 1990, Pages 5-14.	
	AR	BLUM, RICK S. et al. "Improved Space - Time Coding for MIMO-OFDM Wireless Communications" IEEE Transactions on Communications, Vol. 49, No. 11, November 2001, pp. 1873-1878.	

Examiner Signature	Date Considered
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation is not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

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		<b>Examiner Name</b>	To be assigned
<b>Sheet</b>	<b>2</b>	<b>of</b>	<b>2</b>
		<b>Attorney Docket Number</b>	45389.00008.CIP1

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	AS	CHAUNG, JUSTIN et al. "Beyond 3G: Wideband Wireless Data Access Based on OFDM and Dynamic Packet Assignment" IEEE Communications Magazine, July 2000, pages 78-87.	
	AT	EDFORS, OVE et al. "An introduction to orthogonal frequency-division multiplexing" September 1996, pp. 1-50	
	AU	FOERSTER, JEFF et al. "Intel CFP Presentation for UWB PHY" IEEE P802.15 Working Group for Wireless Personal Area Networks, IEEE 802.15-03/109, March 03, 2003, pp. 1-53.	
	AV	KELLY, JOY "Multi-band OFDM Physical Layer Proposal Update" IEEE P802.15 Working Group for Wireless Personal Area Networks, IEEE 802.15-04/0122r4, March 15, 2004, pp. 1-26.	
	AW	LEEPER, DAVID G. "Wireless Data Blaster: Radio's oldest technology is providing a new way for portable electronics to transmit large quantities of data rapidly without wires" Scientific American, May 2002, Pages 64-69.	
	AX	OLSON, CHUCK "Examining and Modifying Marker Generator Output" Jackson Harbor Press, October 26, 1999, pp. 1-5.	
	AY	PATTAN, BRUNO "A Brief Exposure to Ultra-Wideband Signaling" Microwace Journal, December 2003, pages 1-5.	
	AZ	VANDANAMEELE, PATRICK et al. "A Combined OFDM/SDMS Approach" IEEE Journal on Selected Areas in Communications, November 2000, pp. 1-27.	
	BA	WONG, CHEONG YUI et al. "Multiuser OFDM with Adaptive Subcarrier, BIT, and Power Allocation" IEEE Journal on Selected Areas in Communications, Vol. 17, No. 10, October 1999, pp. 1747-1758.	
	BB	YE, ZHONG et al. "Throughput Analysis for a Packet Radio Network Using Rate Adaptive OFDM Signaling" IEEE International Conference on Communications, June 1999, pp. 1-7.	

<b>Examiner Signature</b>	<b>Date Considered</b>
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